

NOTE: If you own a 1985 model, first check the Supplement at the back of the book for any new service information.

CHAPTER SEVEN

ELECTRICAL SYSTEM

This chapter contains operating principles and service and test procedures for all electrical and ignition components. Information on the battery and spark plugs is covered in Chapter Three.

The electrical system includes the following systems:

- a. Charging system (models with a battery).
- b. Ignition system.
- c. Starting system (models so equipped).
- d. Lighting system.

Tables 1-4 are at the end of this chapter. Wiring diagrams are at the end of the book.

CHARGING SYSTEM (MODELS SO EQUIPPED)

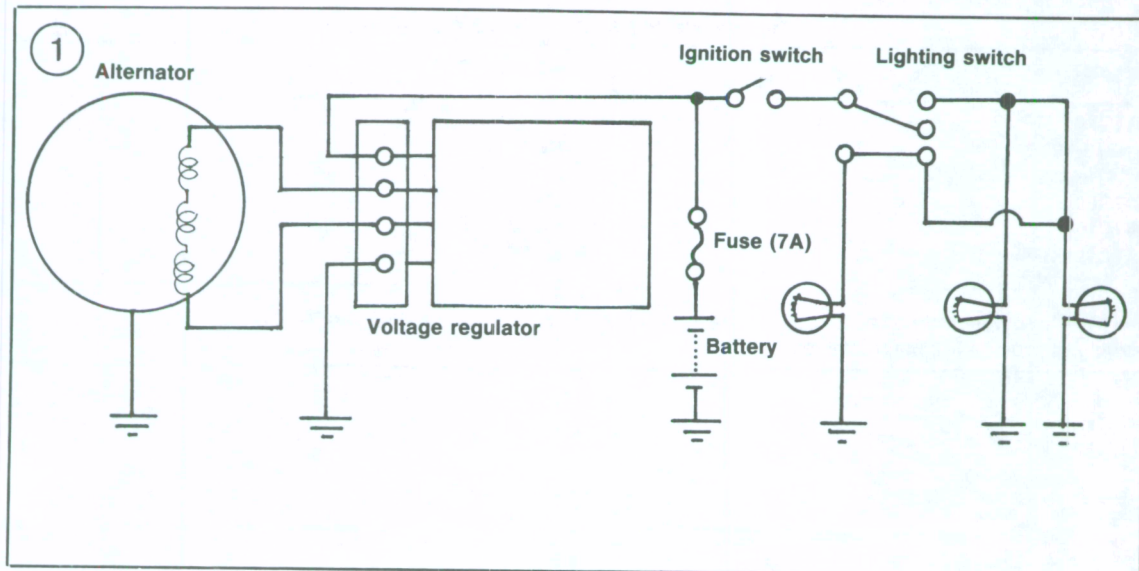
The charging system consists of the battery, alternator and a solid-state voltage regulator/rectifier. **Figure 1** shows a typical charging system.

Alternating current generated by the alternator is rectified to direct current. The voltage regulator maintains the voltage to the electrical load (lights, ignition, etc.) at a constant voltage regardless of variations in engine speed and load.

Charging System Output Test

Whenever a charging system trouble is suspected, make sure the battery is fully charged and in good condition before going any further. Clean and test the battery as described in Chapter Three.

1. Start the ATC and let it reach normal operating temperature; shut off the engine.
2. Place the ATC on level ground and set the parking brake.
3. Remove the seat/rear fender assembly.
4. Remove the screw securing the starter relay cover and remove the cover (**Figure 2**).



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